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Application No. 09/917,964

Supplemental Amendment dated November 18, 2004

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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

35. (CURRENTLY AMENDED) A method for producing a corn plant comprising the steps of:

- (a) co-cultivating an immature embryo from said tissue at a temperature of ~~about 16°C to about~~ between 18°C to 21°C with *Agrobacterium* capable of transferring at least one gene one DNA sequence of interest to said tissue to produce an infected embryo;
- (b) culturing the infected embryo on a medium comprising an antibiotic to produce a resulting tissue;
- (c) culturing said resulting tissue on a medium comprising a selective agent and an antibiotic;
- (d) selecting transformed tissue having Type II callus; and
- (e) regenerating transgenic plants from said Type II callus.

36. (PREVIOUSLY PRESENTED) The method of claim 35, wherein said temperature is about 19°C.

37. (CURRENTLY AMENDED) A method for producing a transformed corn plant comprising the steps of:

- (a) co-cultivating an immature embryo from said tissue with *Agrobacterium* capable of transferring at least one genetic factor to said tissue DNA sequence of interest to produce an infected embryo, wherein said *Agrobacterium* is taken from *Agrobacterium* stock about 0.5 to about 5 days after rescue from frozen glycerol stocks;
- (b) culturing the infected embryo to initiate callus on a medium comprising an antibiotic;
- (c) culturing the resulting callus tissue on a medium comprising a selective agent and an antibiotic;
- (d) selecting transformed callus tissue having Type II callus; and
- (e) regenerating transgenic plants from said Type II callus.

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38. (CURRENTLY AMENDED) A method for transforming a line of corn comprising the steps of:

- (a) co-cultivating an immature embryo from said line with *Agrobacterium* capable of transferring at least ~~one gene~~ one DNA sequence of interest to tissue of said line to produce an infected embryo;
- (b) culturing the infected embryo to initiate callus on a medium comprising an antibiotic and a compound selected from the group consisting of glucose, maltose, lactose, sorbitol and mannitol;
- (c) culturing the resulting callus tissue on a medium comprising a selective agent and an antibiotic;
- (d) selecting transformed callus tissue comprising growing Type II callus; and
- (e) regenerating transgenic plants from said growing Type II callus.

39-40. (CANCELED)

41. (PREVIOUSLY PRESENTED) The method of claim 38, wherein the concentration of said compound is from 5 g/L to 30 g/L.

42. (CURRENTLY AMENDED) A method for producing a transformed corn plant using *Agrobacterium* comprising the steps of:

- (a) initiating co-cultivation of an immature embryo from said tissue with *Agrobacterium* capable of transferring at least ~~one gene~~ one DNA sequence of interest to said tissue to produce an infected embryo;
- (b) applying heat shock treatment during said co-cultivation;
- (c) culturing the infected embryo to initiate callus on a medium comprising an antibiotic and glucose;
- (d) culturing the resulting callus tissue on a medium comprising a selective agent and an antibiotic;
- (e) selecting transformed callus tissue having Type II callus; and
- (f) regenerating transgenic plants from said Type II callus.

43. (CURRENTLY AMENDED) A method for transforming a line of corn using *Agrobacterium* comprising the steps of:

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- (a) co-cultivating an immature embryo from said line with *Agrobacterium* capable of transferring at least ~~one gene~~ one DNA sequence of interest to tissue of said line to produce an infected embryo;
- (b) culturing the infected embryo to initiate callus on a medium comprising an antibiotic;
- (c) culturing the resulting callus tissue on a medium comprising a selective agent ~~or a combination of~~ and an antibiotic and selective agent;
- (d) selecting transformed callus tissue comprising growing Type II callus; and
- (e) regenerating transgenic plants from said Type II callus,
wherein exposure to said antibiotic is increased over two or more passages on the medium of at least one of step (b) or step (c).